

# Elena Criscuolo

PhD

Laboratory of Microbiology and Virology,  
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## PERSONAL SUMMARY

Date of birth: Milan, 07 April 1987  
Nationality: Italian  
Gender: Female  
ID: CA571140J  
CF: CRSLNE87D47F205Q

## WORK POSITIONS

### ASSISTANT PROFESSOR (RTD-A) OF MICROBIOLOGY

*Ricercatore a t.d. - t. pieno (art. 24 c. 3-a L.240/10), MEDS-03/A -  
Microbiology and Clinical Microbiology*

Institution: Vita-Salute San Raffaele University (Milan, Italy)  
Laboratory of Microbiology and Virology

*July 2021 – present*

### POSTDOC POSITION

Institution: Vita-Salute San Raffaele University (Milan, Italy)  
Laboratory of Microbiology and Virology

*April 2016 – June 2021*

### PHD STUDENTSHIP

Institution: Vita-Salute San Raffaele University (Milan, Italy)  
International PhD School in Molecular Medicine  
Program in Preventive and Predictive Medicine

*February 2013 – April 2016*

### RESEARCH ASSISTANT

Laboratory of Microbiology and Virology, Vita-Salute San Raffaele  
University (Milan, Italy)

*December 2011 – January 2013*

### GRADUATION THESIS INTERNSHIP

Laboratory of Microbiology and Virology, Vita-Salute San Raffaele  
University (Milan, Italy)

*October 2010 – November 2011*

## ACADEMIC ACTIVITY

### TEACHING EXPERIENCE

Teaching Coordinator of Course 5 – Biological Sciences 2 (activity code 90037) at the bachelor's degree course in Obstetrics (Faculty of Medicine and Surgery) at Vita-Salute San Raffaele University for the A.Y. 2025/26.

Assistant Professor of the course of Microbiology at the master's degree in Medicine and Surgery (Faculty of Medicine and Surgery) at Vita-Salute San Raffaele University for the A.Y. 2022/23, 2023/24, 2024/25, 2025/26.

Assistant Professor of the course of Microbiology at the master's degree in Dentistry and Dental Implantology (Dental School) at Vita-Salute San Raffaele University for the A.Y. 2022/23, 2023/24, 2024/25, 2025/26.

Assistant Professor of the course of Clinical Microbiology at the bachelor's degree course in Obstetrics (Faculty of Medicine and Surgery) at Vita-Salute San Raffaele University for the A.Y. 2021/22, 2022/23, 2023/24, 2024/25.

Assistant Professor of the course of Microbiology at the bachelor's degree course in Biotechnological Research in Medicine (Faculty of Medicine and Surgery) at Vita-Salute San Raffaele University for the A.Y. 2021/22, 2022/23, 2023/24, 2024/25, 2025/26.

Assistant Professor for the Professionalizing Activities (APRO) of laboratory technical skills at the master's degree course in Medicine and Surgery for the A.Y. 2021/22, 2022/23, 2023/24, 2024/25, 2025/26.

Assistant Professor of the course of Etiopathogenesis of diseases at the bachelor's Degree in Dental Hygiene (Dental School) for the A.Y. 2022/23, 2023/24, 2024/25, 2025/26.

Contract professor of the course of Microbiology at the bachelor's degree course in Biotechnological Research in Medicine (Faculty of Medicine and Surgery) at Vita-Salute San Raffaele University for the A.Y. 2019/20, 2020/21.

### OTHER ACTIVITIES

Member of the Joint Teachers and Students sub-Commission (sotto-Commissione Paritetica Docenti Studenti - sCPDS) of the bachelor's degree course in Biotechnological Research in Medicine (Faculty of Medicine and Surgery) at Vita-Salute San Raffaele University, A.Y. 2024/25.

Member of the commission for admission to the International PhD Course in Molecular Medicine at Vita-Salute San Raffaele University (XXXVIII PhD cycle).

Thesis co-supervisor of:

- "Mechanisms of lung epithelial barrier disruption in RNA virus infections: host and viral factors affecting tight junction integrity" Benedetta Mastromarino - Faculty of Medicine and Surgery, Master's Degree in Biotechnology and Medical Biology (A.Y. 2024/25)
- "The role of the microbiota-gut-brain axis and potential therapeutic approaches in Alzheimer's disease", Emanuele Santangelo - Faculty of Medicine and Surgery, Bachelor's Degree in Biotechnology Research in Medicine (A.Y. 2024/25)
- "Cell-intrinsic innate immune responses of PBMCs to SARS-CoV-2 exposure", Elisa Calvetti - Faculty of Medicine and Surgery, Master's Degree in Biotechnology and Medical Biology (A.Y. 2023/24)

- "Role of tight junction proteins in the internalization of SARS-CoV-2 and in spread of the infection", Martina Benefico, Department of Chemical, Life and Life sciences Environmental sustainability of the University of Parma, Master's Degree in Genomic, Molecular and Industrial Biotechnologies (A.Y. 2022/23)
- "Validation of a reliable reporting system for measurement of SARS-CoV-2 VOCs fusion efficiency", Martina Corbari - Faculty of Medicine and Surgery, Master's Degree in Biotechnology and Medical Biology (A.Y. 2022/23)
- "Viral infections of the Central Nervous System", Benedetta Mastromarino - Faculty of Medicine and Surgery, Bachelor's Degree in Biotechnology Research in Medicine (A.Y. 2022/23)
- "Colistin resistance: innovative therapeutic approaches to reverse the phenotype in multidrug-resistant gram-negative bacteria", Elisa Calvetti - Faculty of Medicine and Surgery, Bachelor's Degree in Biotechnology Research in Medicine (A.Y. 2021/22)
- "Innovative host directed therapies for the treatment of *mycobacterium tuberculosis*: advantages and limitations of biotechnological approaches in the preclinical phase", Ilaria Iannucci - Faculty of Medicine and Surgery, Bachelor's Degree in Biotechnology Research in Medicine (A.Y. 2020/21)
- "Characterization of human antibody response directed against SARS-CoV-2 infection", Benedetta Giuliani - Faculty of Medicine and Surgery, Master's Degree in Biotechnology and Medical Biology (A.Y. 2020/21)
- "HSV entry characterization and biological antiviral activity of human sera", Gaia Moncada - Faculty of Medicine and Surgery, Master's Degree in Biotechnology and Medical Biology (A.Y. 2019/20)
- "Biotechnological approaches for the diagnosis and therapy of multidrug resistant *K. pneumoniae* infections", Elena Benvenuto - Faculty of Medicine and Surgery, Bachelor's Degree in Biotechnology Research in Medicine (A.Y. 2018/19)
- "Biotechnological applications of phages: phage display, drug delivery and vaccine development", Matteo Miotto - Faculty of Medicine and Surgery, Bachelor's Degree in Biotechnology Research in Medicine (A.Y. 2017/18)
- "Biotechnological approaches for developing novel effective malaria vaccines", Letizia Zanetti - Faculty of Medicine and Surgery, Bachelor's Degree in Biotechnology Research in Medicine (A.Y. 2016/17)

Thesis examiner of:

- "Peroxisome dynamics during HSV-1 life cycle in hiPSC-derived neurons", Carolina Filipponi – International PhD Course in Clinical and Translational Sciences at University of Pisa (XXXVIII PhD cycle)
- "Commensal gut microbiota promotes immune tolerance towards self-antigens and prevents autoimmune extra-intestinal diseases through molecular mimicry mechanism", Sofia Zoe Tonino - Faculty of Medicine and Surgery, Master's Degree in Biotechnology and Medical Biology (A.Y. 2024/25)
- "Investigating molecular and immunological mechanisms underlying HIV persistence", Elena Bruzzesi - International PhD Course in Molecular Medicine at Vita-Salute San Raffaele University (XXXVII PhD cycle)
- "KAF156 / Ganaplacide, a next-generation replacement for Artemisinin Combination Therapy (ACT)", Mariagiulia Conte - Faculty of Medicine and Surgery, Master's Degree in Biotechnology and Medical Biology (A.Y. 2022/23)

Training and orientation internship supervisor for Bachelor's Degree in Biotechnology Research in Medicine:

- Rebecca Franco, Alessandra Sam, Elisabetta Taioli (A.Y. 2024/25)
- Francesca Bisi, Mia Albasi, Nadia Bonacina, Emanuele Santangelo (A.Y. 2023/24)
- Benedetta Mastromarino, Faculty of Medicine and Surgery (A.Y. 2021/22)
- Marta Facchinetti, Faculty of Medicine and Surgery (A.Y. 2020/21)

## RESEARCH EXPERIENCE

Elena Criscuolo obtained her PhD in Molecular Medicine at the Vita-Salute San Raffaele University in 2016, working on the antibody response elicited during the Herpes Simplex Virus (HSV) infection and the protection conferred *in vivo* by human monoclonal antibodies. Then, she remained in the laboratory of Microbiology and Virology as a postdoctoral research fellow, implementing her expertise on pathogens of both BSL-2 and -3, not least SARS-CoV-2 and Mpox.

In detail, she investigated the synergy of anti-herpetic compounds targeting different steps of the HSV life cycle, the neutralizing activity of sera from HSV-infected subjects both before and after infection, and HSV reactivation dynamics in a human stem cell-derived neuron-to-keratinocyte circuit reconstituted in microfluidic devices, providing an advanced *in vitro* model of latency and reactivation. She subsequently focused on SARS-CoV-2, dissecting viral entry pathways in different cellular models, assessing how cell-type-specific usage of serine protease- versus endosome-dependent routes affects neutralization readouts, and evaluating antiviral compounds against infection. Her most recent work has also contributed to defining long-lived orthopoxvirus immunity, showing that serum antibodies elicited by first-generation smallpox vaccines can still cross-neutralize 2022 outbreak Mpox virus strains more than 40 years after vaccination, with implications for outbreak control and vaccine policy.

## EDUCATION AND QUALIFICATIONS

### NATIONAL SCIENTIFIC QUALIFICATION (ASN)

06/MEDS-03 Microbiology and Clinical Microbiology (MEDS-03/A)  
From 09/06/2023 to 09/06/2035

### ACADEMIC QUALIFICATIONS

#### **Doctor of Philosophy in Molecular Medicine, Section of Preventive and Predictive Medicine**

*Outstanding*

2013-2016

Institution: Università Vita-Salute San Raffaele (Milan, Italy)

Thesis title: "Immunotherapy of HSV infections"

DOS: Prof. Massimo Clementi

Second Supervisor: Prof. Arnaldo Caruso

#### **Master's Degree Course in Medical, Molecular and Cellular Biotechnology**

*110/110 cum laude*

2009-2011

Institution: Università Vita-Salute San Raffaele (Milan, Italy)

Thesis title: "Neutralizing antibody response during Hepatitis C virus (HCV) infection"

Supervisors: Prof. Massimo Clementi, Prof. Roberto Burioni

**Bachelor's Degree Course in Medical and Pharmaceutical Biotechnology**

109/110

2006-2009

Institution: Università Vita-Salute San Raffaele (Milan, Italy)

Thesis Title: "Biotechnological aspects of the prion diseases in vivo diagnosis"

Supervisors: Prof. Roberto Burioni, Dr. Nicasio Mancini

**Scientific High School Diploma**

2001-2006

Institution: Niccolò Machiavelli Scientific high school (Pioltello - Milan, Italy)

## COMMUNICATIONS AT CONGRESSES

### ORAL PRESENTATIONS

Giuliani B, Ventura E, Sessa A, Colnaghi L, **Criscuolo E**. Multimodal Imaging of HSV-1 Intercellular Spread: Linking Viral Transmission and Tau Propagation in Neuronal Networks. *Junior Group Workshop of the European Society for Virology: Imaging Viruses 2026*. Madrid, Spain: 9-10 April 2026

**Criscuolo E**, Severa M, Castelli M, Cairo G, Etna MP, Ricci D, De Angelis M, Nencioni L, Palamara AT, Burioni R, Coccia EM, Clementi N. Insights into host innate immunity upon infection with SARS-CoV-2 variants of concern: a single cell multi-omic approach and monitoring of subgenomic RNA dynamics reveal variant-specific regulation of cytokine profiles, antiviral response and monocyte physiology. *Meeting - Research node 1 INF-ACT – Emerging and Re-emerging viruses*. Naples, Italy: 2 April 2025

**Criscuolo E**, Giuliani B, Castelli M, Cavallaro M, Sisti S, Burioni R, Ferrari D, Mancini N, Locatelli M, Clementi N. Single spike mutation differentiating XBB.1 and XBB.1.5 enhances SARS-CoV-2 cell-to-cell transmission and facilitates serum-mediated enhancement. *Junior Group Workshop for the European Society for Virology: Imaging Viruses*. Madrid, Spain: 13-14 February 2025

**Criscuolo E**, Castelli M, Diotti R.A., Amato V, Burioni R, Clementi M, Ambrosi A, Mancini N, Clementi N. Neutralizing sera from HSV-1 or HSV-2 infected subjects poorly inhibit direct virus cell-to-cell spread. *3<sup>rd</sup> National Congress of the Italian Society for Virology*. Padua, Italy: 10-12 September 2019

**Criscuolo E**, Clementi N, Mancini N, Diotti R.A., Castelli M, Burioni R, Clementi M. Entry inhibition of HSV-1 and -2 protects mice from viral lethal challenge. *9<sup>th</sup> Milan Meets Immunology (MMI)*. Milan, Italy: 19 February 2019

**Criscuolo E**, Clementi N, Mancini N, Diotti R.A., Castelli M, Burioni R, Clementi M. Characterization of the humoral response directed against herpes simplex virus glycoproteins in naturally infected patients. *2<sup>nd</sup> National Congress of the Italian Society for Virology*. Rome, Italy: 28-30 November 2018

**Criscuolo E**, Clementi N, Mancini N, Diotti R.A., Castelli M, Burioni R, Clementi M. Characterization of the humoral response directed against herpes simplex virus glycoproteins in naturally infected patients. *4<sup>th</sup> IAAASS - Approaches for Identification of Antiviral Agents Summer School*. Santa Margherita di Pula (CA), Italy: 24-28 September 2018.

**Criscuolo E**, Clementi N, Castelli M, Miduri M, Mancini N, Burioni R, Clementi M. Synergistic activity of HSV entry inhibitors tailoring different steps of virus lifecycle enhances antiviral effects of antiherpetic

drugs. 5<sup>th</sup> *Italian experience in biomedical research: Young minds at work*. Desenzano del Garda (BS), Italy: 20-21 October 2017

**Criscuolo E.**, Cappelletti F., Clementi N., Diotti R.A., Castelli M., Mancini N., Burioni R., Clementi M. In vivo protection conferred by human monoclonal antibody directed against HSV-1 and 2. 3<sup>rd</sup> *Italian experience in biomedical research: Young minds at work*. Desenzano del Garda (BS), Italy: 23-24 October 2015

## POSTERS

Giuliani B, Ventura E, Sessa A, Colnaghi L, **Criscuolo E.** Dissecting HSV-1 Latency and Reactivation: A Reporter-Based Approach to Neuronal Communication and Protein Aggregation. *Viruses 2026 – New Horizons in Virology, Barcelona, 11-13 March 2026*

**Criscuolo E**, Severa M, Castelli M, Cairo G, Etna MP, Ricci D, De Angelis M, Nencioni L, Palamara AT, Burioni R, Coccia EM, Clementi N. Insights into innate immune cell dynamic upon SARS-CoV-2 infection: a single cell multi-omic approach reveals viral manipulation of monocyte response. *INF-ACT annual meeting 2025 Rome, 17-20 November 2025*

**Criscuolo E**, Severa M, Castelli M, Cairo G, Etna MP, Ricci D, De Angelis M, Nencioni L, Palamara AT, Burioni R, Coccia EM, Clementi N. Insights into host innate immunity upon infection with SARS-CoV-2 VOCs. *53rd SIM National Congress, University of Catania, 19-22 September 2025*

**Criscuolo E**, Castelli M, Giuliani B, Sisti S, Fumagalli V, Iannacone M, Guillén AM, Avila RA, Lopalco L, Sampaolo M, Ferrari D, Locatelli M, Mancini N, Clementi N. A class III human antibody insensitive to SARS-CoV-2 SLip and FLIRT mutational hotspots. *DITID Retreat 2025, Starhotels Du Parc, Parma, 4-5 September 2025*

**Criscuolo E**, Severa M, Castelli M, Cairo G, Etna MP, Ricci D, De Angelis M, Nencioni L, Palamara AT, Burioni R, Coccia EM, Clementi N. Immune Modulation by SARS-CoV-2 Variants of Concern: Cytokine Profiles, Antiviral Responses, and Subgenomic RNA Dynamics in Human Monocytes and PBMCs. *INF-ACT annual meeting 2024 University of Naples, 3-5 April 2025*

**Criscuolo E**, Severa M, Castelli M, Cairo G, Etna MP, Ricci D, De Angelis M, Nencioni L, Palamara AT, Burioni R, Coccia EM, Clementi N. Differential cytokine profile in SARS-CoV-2 VOCs-treated PBMC: insights into viral subgenomic RNAs. *INF-ACT meeting 2024 University of Pavia, 11-12 September 2024*

**Criscuolo E**, Giuliani B, Ferrarese R, Ferrari D, Clementi M, Mancini N, Clementi N. Proper selection of *in vitro* cell model affects the characterization of the antibody response against SARS-CoV-2. *6th National Congress of the Italian Society for Virology – One Virology One Health*. Naples, Italy: 3-5 July 2022

**Criscuolo E**, Cappelletti F, Clementi N, Mancini N, Sautto GA, Diotti RA, Clementi M and Burioni R. Broadly neutralizing human monoclonal antibodies: a novel resource against influenza viruses. *15<sup>th</sup> ICI – International Congress of Immunology*. Milan, Italy: 22-27 August 2013

**Criscuolo E**, Cappelletti F, Sautto GA, Diotti RA, Clementi N, Mancini N, Clementi M and Burioni R. Synergistic neutralization of HCV by two broadly neutralizing human monoclonal antibodies. *3<sup>rd</sup> EUSPM Congress*. Riolo Terme (RA), Italy: 9-10 March 2013

**Criscuolo E**, Clementi M and Burioni R. Evaluation of synergistic interactions of anti-HCV/E2 monoclonal antibodies. *San Raffaele Scientific Institute Retreat*. Stresa (VB), Italy: 10-12 February 2011

## INVITED PRESENTATIONS AT WORKSHOPS

- Criscuolo E** Infectious diseases. *Master farmaco UNIMIB*, webinar, 07 February 2026
- Criscuolo E** Nuovi orientamenti della ricerca nella "galassia" HPV, *Corso Residenziale Avanzato di Patologia e Clinica del tratto genitale femminile inferiore*, Nhow Hotel Milano (MI), 28-29 November 2025
- Criscuolo E** Il Ruolo delle Oncoproteine Virali: come HPV Provoca il Cancro. *Forum multidisciplinare sull'HPV*, Starhotels E.c.ho. Milan (MI), 17 October 2025
- Criscuolo E** Antibiotico-resistenza. *Master farmaco UNIMIB*, webinar, 08 February 2025
- Criscuolo E** Nuovi orientamenti della ricerca nella "galassia" HPV, *Corso Residenziale Avanzato di Patologia e Clinica del tratto genitale femminile inferiore*, Nhow Hotel Milano (MI), 22-23 November 2024
- Criscuolo E** Le malattie infettive. *Master farmaco UNIMIB*, webinar, 2024 and 2023 editions
- Criscuolo E** Inattivazione di SARS-CoV-2 mediante UV-C e ozono, *U(V)DAY workshop*, INAF presso Osservatorio astronomico di Brera, Milan (MI), 21 June 2022
- Criscuolo E** Malattie virali. *Master farmaco UNIMIB*, webinar, 30 April 2022
- Criscuolo E** Anticorpi monoclonali per l'immunoterapia. *19° Corso CRNI*, webinar, 1-8-15 July 2021
- Criscuolo E** Il virus SARS-CoV-2. *Master farmaco UNIMIB*, webinar, 15 May 2021

## PRIZES AND SCIENTIFIC ASSIGNMENTS

- 2025 Funding from the Oretta Bartolomei Corsi Virological Research Institute Foundation** – PI of the project "Reactivation of HSV-1 and Alzheimer's Risk: Immunotherapy as an Intervention Strategy".
- 2022 PRIN** – Participant as key personnel of the research unit UniSR at the Project n. 2022EJL28B, "BIOPLEX: Bio-reconfigurable Differential Impedance Electronic Platform for High Sensitivity Multiplex Detection of Viral Respiratory Pathogens".
- 2017 PRIN** – Participant as staff scientist at the Project n. 2017KM79NN, "Addressing viral neuropathogenesis: Unraveling the molecular and cellular pathways of viral replication and host cell response and paving the way for the development novel host-targeted, broad spectrum, antiviral agents".
- PNRR MUR (Ministry of University and Research, Italy) 2022** – Collaboration assignment on the "Extended Partnership" project "INF-ACT: One Health Basic and Translational Research Actions Addressing Unmet Needs on Emerging Infectious Diseases" - theme "Emerging Infectious Diseases", MUR PE00000007.

## PATENT

- European Patent Application no. WO 2023/073441 A1 published on May 4, 2023  
Title: "Neutralizing monoclonal antibodies against Sarbecoviruses"  
<https://patents.google.com/patent/WO2023073441A1/en?q=WO+2023%2f073441+A1>

## AWARDS AND HONORS

- "La Torretta" Award, BCC Milan 2019  
"Cecilia Cioffrese" Award, Carlo Erba Foundation 2018  
Best Presentation Award, European Society for Virology 2018 (4<sup>th</sup> IAAASS)

## MEMBERSHIP OF SCIENTIFIC SOCIETIES AND FOUNDATIONS

- Member of the MicrobiotaMI association since 2023  
Member of the Italian Society for Virology (SIV-ISV) since 2019

## PARTICIPATION IN PROGRAM COMMITTEES OF INTERNATIONAL AND NATIONAL CONFERENCES

- Organizing committee of the Junior Group Workshop of the European Society for Virology: Imaging Viruses 2026, Madrid, Spain: 9-10 April 2026

**EDITORIAL ACTIVITY**

Associate Editor of Frontiers in Genetics since 2024

Associate Editor of Frontiers in Microbiology since 2024

Associate Editor of Frontiers in Cellular and Infection Microbiology since 2023

Editorial Board Member of Epidemiologia (MDPI) since 2020

Editorial Review Board Member of Microorganisms (MDPI) since 2020

Editorial Board Member of Journal of Clinical Medicine (MDPI), section Immunology, since 2018

Guest Editor of Viruses (MDPI), special issue "Imaging Neurotropic Viruses" in 2026

Guest Editor of Frontiers in Genetics, special Issue "RNA Viruses: From Molecular Mechanisms to Novel Therapeutic Targeting Strategies" in 2025

Guest Editor of Frontiers in Immunology, special Issue "Viral Escape of Mucosal Immunity in Sexually Transmitted Diseases" in 2022

Guest Editor of Journal of Immunology Research (Hindawi), special Issue "Next Generation Vaccines for Infectious Diseases" in 2018

**CERTIFICATIONS**

MATLAB for Data Processing and Visualization	2022
MATLAB Fundamentals by MathWorks	2022
Olympus confocal FV 3000	2021
Leica TCS SP2 Laser Scanning Confocal	2015
Zeiss microscope Axio Observer Z1	2015
XXXI theoretical-practical course of optical and electronic microscopy, Alembic	2013

**PUBLIC ENGAGEMENT**

- Orientation activity in the school-to-University Transition in Vita-Salute San Raffaele University, "Science Fair" in Open day UniSR initiative, (15/11/2025, 7 hours in total)
- Orientation activity in the school-to-University Transition in IIS N. Machiavelli (Piolteggio, MI) "#BuildYourFuture" under the National Recovery and Resilience Plan, Mission 4 "Education and Research" - Component 1 "Enhancement of the education services: from nurseries to the University" - Investment 1.6 "Active Orientation in the school-to-university transition," funded by the European Union - NextGenerationEU (01/02/2025, 4 hours in total)
- Open conference "Esplorando le prospettive della medicina molecolare" hosted by Comune di Robbiate (LC), organized by La Semina APS - Associazione culturale (08/03/2024).
  - <https://comune.robbiate.lc.it/vivere-il-comune/eventi/frontiere-della-ricerca/>
- Orientation activity in the school-to-University Transition in IIS N. Machiavelli (Piolteggio, MI) "#BuildYourFuture" under the National Recovery and Resilience Plan, Mission 4 "Education and Research" - Component 1 "Enhancement of the education services: from nurseries to the University" - Investment 1.6 "Active Orientation in the school-to-university transition," funded by the European Union - NextGenerationEU (25-26-27/01/2024, 6 hours in total)
- Dissemination activity in Istituto Comprensivo "Giovanni Falcone" – San Giovanni La Punta (Catania, CT) within the PNRR project "InnovaMenti\_STEM" of the Italian Ministry of Education, both as direct interaction with students and through the recording of a podcast (28/03/2023, 13/04/2023, 2 hours in total)
- Dissemination activity in LSS R. Donatelli – B. Pascal (Milano, MI) to raise awareness of viral infections and pandemics to combined classes (Third classes, 200 students): "La pandemia da COVID-19 e le nuove terapie" (05/04/2022, 12/04/2022, 5 hours in total)
- Dissemination activity in IIS N. Machiavelli (Piolteggio, MI) to raise awareness of viral infections and pandemics to combined classes (3A, 3B, 3C, 3D, 3F, 4A, 4B, 4D, 4E, 5B, 5F of the scientific

high school, 3CT, 4APC, 4BPS, 4ATS, 4BTS, 4CT, 5APS of the Professional Institute): “Malattie virali” (21/02/2022, 16/03/2022, 5 hours in total)

- Dissemination activity in IIS N. Machiavelli (Pioltello, MI) to raise awareness of SARS-CoV-2 pandemic to combined classes (3C, 3E, 4A, 4C, 4D of the scientific high school, 3AC of the classical high school, 4APS, 4BPS, 4BPC, 5APS, 5BPS, 5AS and 5BS of the Professional Institute): “SARS-CoV-2 – vaccini” (8-10-15/02/2021, 17/03/2021, 10 hours in total)
- Open conference “Coronavirus” hosted by Comune di Segrate (18/02/2020, Auditorium cultural center Verdi, Segrate, MI):  
<https://www.comune.segrate.mi.it/novita/eventi/dettaglio/Coronavirus.-Dobbiamo-avere-paura/>
- Open webinar “COVID-19 update” hosted by Whiskyclub Italia (24/03/2020)  
<https://whiskyclub.it/evento/sociale-in-pillole-covid-19-update/>
- Collaboration with Comune di Segrate to raise awareness among citizens on the importance of restrictive lockdown measures to post on social media (18/03/2020)  
<https://www.youtube.com/watch?v=qBCjyujPUS0>
- Participation in the Nautilus episode “Virus” (Rai Scuola, 09/2019)  
<https://www.raisplay.it/video/2019/08/RAISCUOLA-PT-48-NAUTILUS-VIRUS-9de53173-c49a-4950-93b1-2ca9da821bc5.html>
- Dissemination activity in IIS N. Machiavelli (Pioltello, MI) to raise awareness of HIV infection to combined classes (3D, 3E, 3F of the scientific high school, 2AC of the classical high school: “Diffusione dell’HIV, terapie e vaccino: a che punto siamo?” (07/02/2020)
- In-depth seminar on the topic of HIV infection in the context of the awarding of the Pisani prize and Dulbecco scholarship to high school students of in IISS N. Machiavelli (Pioltello, MI, 01/2019)
- Tutoring “Alternanza scuola-lavoro” high school student (06-10/07/2015)

## PUBLICATIONS

Number of publications in peer-reviewed journals (Scopus): 47

Number of citations (Scopus): 1462

H index (Scopus): 19

## FULL PAPERS

1. Moschetta N\*, **Criscuolo E\***, Raccagni AR, Capra N, Lolatto R, Loi G, Canetti D, Castagna A, Nozza S, Clementi N. (2026). A humoral dilemma: reassessing monkeypox virus neutralizing antibodies at more than two years from Mpox or MVA-BN vaccination. *J Infect Dis.* doi:10.1093/infdis/jiag009 (IF = 4.5)  
**[\*First authorship shared]**
2. Donà MG, Pellegrini A, Rollo F, Laquintana V, Latini A, Giuliani E, Benevolo B, **ITACA working group**. An Exploratory Survey on the Use of Anal Cytology as a Tool for Anal Cancer Screening in Italy. *Cancer Prev Res (Phila)*. 2026;19(1):43-48. doi:10.1158/1940-6207.CAPR-25-0259 (IF = 2.6)
3. Rossi E, Marenga S, Castoldi V, **Criscuolo E**, Giuliani B, Malacrida C, Clementi N, Comi G, Leocani L (2026). Tracking remyelination in a model of multiple sclerosis: Visual evoked potentials reveal therapeutic effect from brain stimulation and exercise. *Experimental Neurology* – doi: <https://doi.org/10.1016/j.expneurol.2025.115565> (IF = 4.2)

4. Sisti S\*, **Criscuolo E\***, Giuliani B, Cavallaro M, Sampaolo M, Castelli M, , Burioni R, Locatelli M, Clementi N (2025). Evaluation of respiratory virus transmissibility and resilience from fomites: the case of 11 SARS-CoV-2 clinical isolates. *Applied and Environmental Microbiology* – doi: <https://doi.org/10.1128/aem.00774-25> (IF = 3.7)  
**[\*First authorship shared]**
5. **Criscuolo E\***, Giuliani B\*, Castelli M, Cavallaro M, Sisti S, Burioni R, Ferrari D, Mancini N, Locatelli M, Clementi N (2024). Single spike mutation differentiating XBB.1 and XBB.1.5 enhances SARS-CoV-2 cell-to-cell transmission and facilitates serum-mediated enhancement. *Frontiers in Immunology* - doi: 10.3389/fimmu.2024.1501200. (IF = 5.7)  
**[\*First authorship shared]**
6. Giambruno R, Zacco E, Ugolini C, Vandelli A, Mulrone L, D'Onghia M, Giuliani B, **Criscuolo E**, Castelli M, Clementi N, Clementi M, Mancini N, Bonaldi T, Gustincich S, Leonardi T, Tartaglia GG, Nicassio F (2023). Unveiling the Role of PUS7-Mediated Pseudouridylation in Host Protein Interactions Specific for the SARS-CoV-2 RNA Genome. *Molecular Therapy Nucleic Acids* – doi: 10.1016/j.omtn.2023.102052. (IF = 10.183)
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## CONTRIBUTIONS TO BOOKS

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## PREPRINTS

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## ABSTRACTS

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